



ABSTRACT

5 The present invention provides therapeutic compositions and methods for
treating disease conditions in humans associated with an antigen specific immune
response by the human to an antigen such as a protein antigen (i.e. allergy and
autoimmune diseases). Therapeutic compositions of the invention are reproducible
preparations which are suitable for human therapy. Compositions of the invention
10 comprise at least one isolated peptide having a defined sequence of amino acid residues
and the composition is capable of down regulating an antigen specific immune response
to an offending antigen in a population of humans subject to the antigen specific
immune response. Compositions and methods of the invention may be used to treat
sensitivity to protein allergens in humans and may also be used to treat autoimmune
15 disease such as rheumatoid arthritis, diabetes, myasthenia gravis, Grave's disease, Good
Pasture's syndrome, thyroiditis and multiple sclerosis.